

## ETHYLENE TRIMERIZATION CATALYST AND METHOD FOR TRIMERIZING ETHYLENE USING SAME

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### Abstract of JP2000202299

**PROBLEM TO BE SOLVED:** To efficiently produce 1-hexene from ethylene with high selectivity by preparing an ethylene trimerization catalyst from a chromium complex with a coordinated neutral multidentate ligand, a metal alkyl compound and a topotactic reduction product accompanied with electron transfer.

**SOLUTION:** The ethylene trimerization catalyst for the production of 1-hexene useful as a comonomer of linear low density polyethylene from ethylene is prepared using at least a chromium complex with a coordinated neutral multidentate ligand, a metal alkyl compound and a topotactic reduction product accompanied with electron transfer. The topotactic reduction product has been subjected to salt treatment, acid treatment or other treatments). The chromium complex is represented by the formula  $ACrB_n$  A is a neutral multidentate ligand, (n) is an integer of 1-3 and B is H, halogen, amido, alkoxide or the like].

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